

Nathan Joseph Savas

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Education

California State University, Long Beach

Exp. Graduation: Dec 2021

Bachelors (B.S) In Computer Science

Concentration GPA: 3.52

Relevant Coursework: Analysis of Algorithms, Artificial Intelligence, Intro to Computer Security, Database Fundamentals, Operating Systems, Object Oriented Application Development, Intro to Software Engineering

Experience

Amazon Web Services (AWS)

Remote (CA)

Software Development Engineer Intern

June 2020 - August 2020

- Worked with the AWS CodeGuru team to develop a visualization dashboard using React & Redux (TypeScript) to enable time-based analysis of user account anomalies detected by the service
- Developed an algorithm to track overlapping time intervals for a given set of anomalies and designed custom Apache ECharts components (Line & Gantt chart) to render results
- Leveraged the Redux-saga middleware library to write simplified asynchronous control flows, isolate application side effects, and test saga functions using Jest

Siemens PLM Software

Cypress, CA

Software Engineering Intern

May 2019 - January 2020

- Worked with the NX CAD Validation team to build a cloud application using Angular that lets customers validate design specs on the web by running custom reports on CAD models
- Developed an internal JavaScript library to provide NX cloud teams with abstractions for fetching report results and rendering these results in navigation tree components
- Integrated tool with another library to tag bitmap images on CAD models within a WebGL interface

Projects

Senior Design Project: PhotoSense 🌐 🌐

Python, JavaScript, AWS EC2

- Worked with a team of 5 to develop a full-stack AI face censoring system, deploying a Keras model as a RESTful API service to process image requests for various clients (web app, bots, chrome ext.)
- Integrated Flask API with a Redis cache to process images in batch for optimized memory usage
- Developed web-based drawing tools using the Canvas API to let users edit, add, and remove image segmentations directly within our React application

US City Chemical Release Visualizer 🌐

JavaScript, PostgreSQL

- Led a team of 3 to develop a web mapping application using React & MapboxJS to visualize 30+ years of EPA Toxic Release Inventory (TRI) data for any US city
- Developed a RESTful API with Express to fetch data from a PostgreSQL database server
- Used the Mapbox JS SDK to plot geospatial data on a map interface and React-Vis to render a visualization dashboard for in-depth analysis of a city's toxic release history

Skills

Programming Languages: Java, JavaScript, TypeScript, Python, C++, SQL, HTML, CSS

Frameworks/Tools: React, Redux, Express, Node, Git, PostgreSQL, Flask, Redis, Docker, AWS Core Services